

FIG. 1

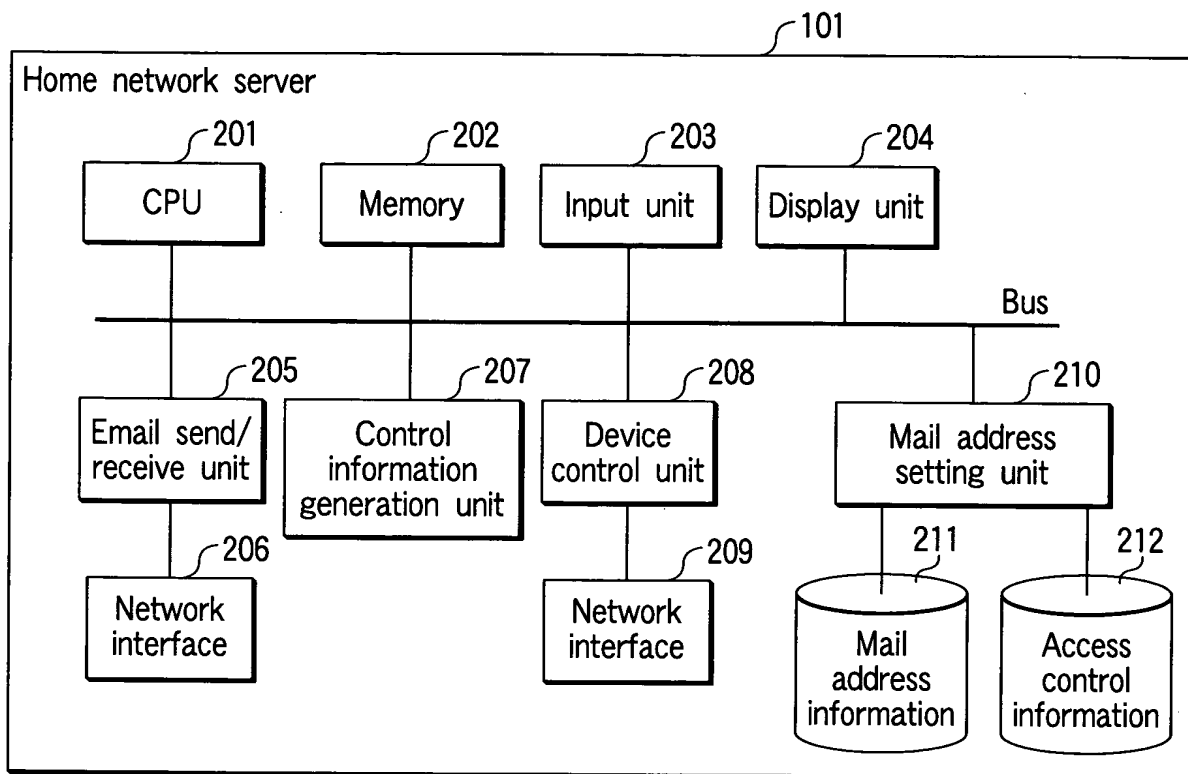


FIG. 2

Mail address information 211

Name of device	ID of device	Mail address
Home server	390001	HomeServer@ homeserver.abc.co.jp
TV	390002	DTV@ homeserver.abc.co.jp
DVHS	390003	DVHS@ homeserver.abc.co.jp
AV-HDD	390004	AV-HDD@ homeserver.abc.co.jp
DVD-RAM	390005	DVD-RAM@ homeserver.abc.co.jp
Air conditioner	390006	aircon@ homeserver.abc.co.jp
Surveillance camera	390007	camera@ homeserver.abc.co.jp
Desktop PC	390008	PC@ homeserver.abc.co.jp

FIG. 3

Access control information

Access permission mail address	User name	Password	Access permission device
taro@abc-net.co.jp	T_taro	*****	DVHS, AV-HDD, Surveillance camera
jiro@abc-net.co.jp	T_jiro	*****	DVHS, DVD-RAM
saburo@abc-net.co.jp	T_saburo	*****	Air conditioner
Ako@abc-net.co.jp	T_Ako	*****	DVHS

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FIG. 4

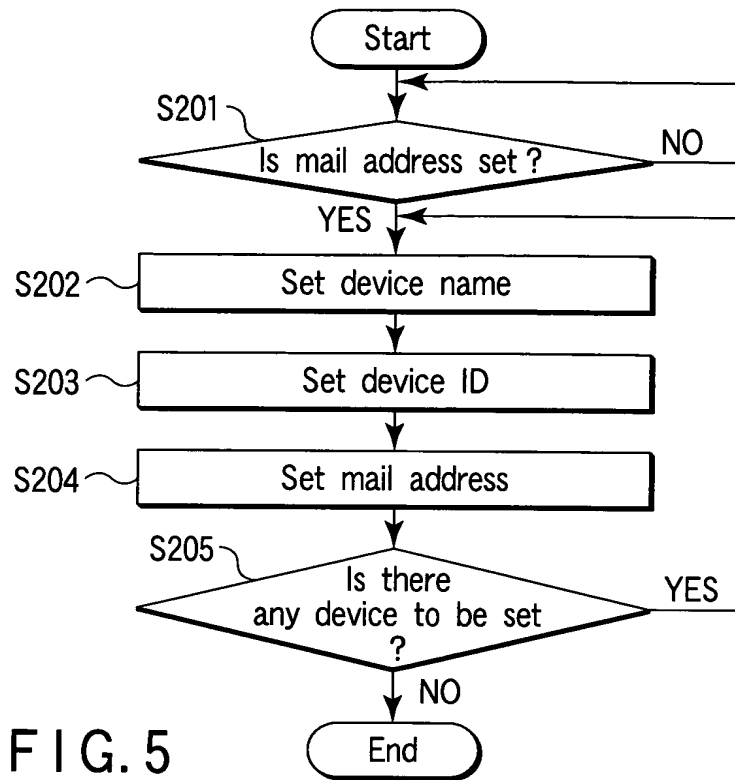


FIG. 5

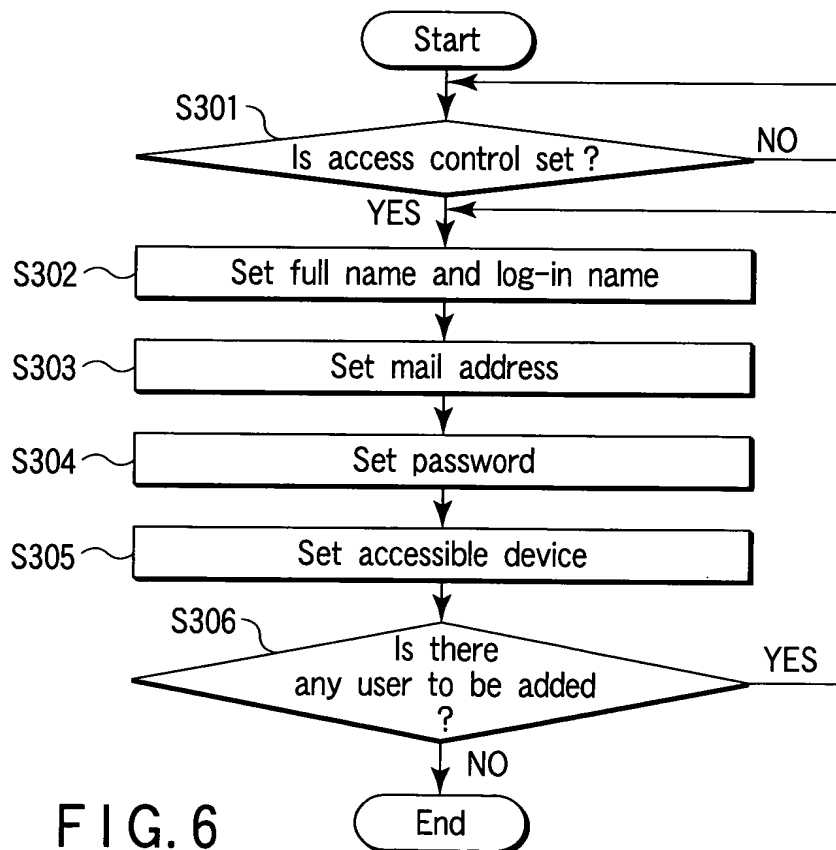


FIG. 6

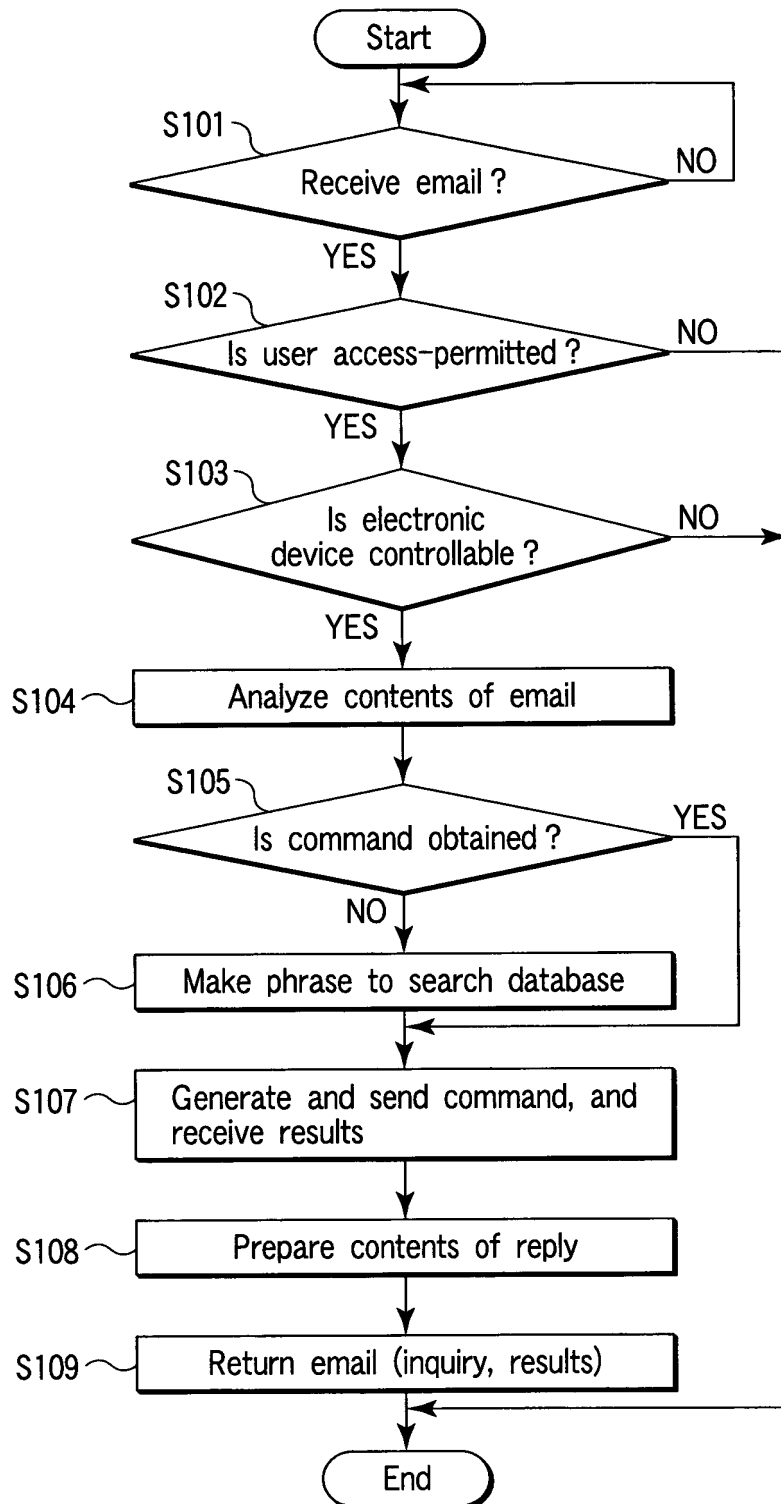


FIG. 7

Portable terminal

Home network server

From : taro@abc-net.co.jp  
To : DVHS@homeserver.abc.co.jp  
Subject : Recording schedule

~401

-----  
Record a movie starting at 9 this evening

From : DVHS@homeserver.abc.co.jp  
To : taro@abc-net.co.jp  
Subject : Re : Recording schedule

~402

-----  
Do you schedule the following recording ?  
If you wish to record, send "OK"  
If you wish to cancel, send "NG"

-----  
Recording date : Wednesday, August 1, 2002  
Recording start time : 21:00  
Recording stop time : 23:00  
Recording channel : channel 4  
Program title : \*\*\*\*  
Program contents : -----  
Director : #####  
Performers : +++++, ○○○○, ××××

From : taro@abc-net.co.jp  
To : DVHS@homeserver.abc.co.jp  
Subject : Recording schedule

~403

-----  
OK  
>Do you schedule the following recording ?  
>If you wish to record, send "OK"  
>If you wish to cancel, send "NG"

From : DVHS@homeserver.abc.co.jp  
To : taro@abc-net.co.jp  
Subject : Re : Recording schedule

~404

-----  
Following recording has been scheduled.

-----  
Recording date : Wednesday, August 1, 2002  
Recording start time : 21:00  
Recording stop time : 23:00  
Recording channel : channel 4  
Program title : \*\*\*\*  
Program contents : -----  
Director : #####  
Performers : +++++, ○○○○, ××××

FIG. 8

Portable terminal

Home network server

From : taro@abc-net.co.jp  
To : DVHS@homeserver.abc.co.jp  
Subject : Recording schedule  
-----  
Record a movie starting at 9 this evening

~411

From : DVHS@homeserver.abc.co.jp  
To : taro@abc-net.co.jp  
Subject : Re : Recording schedule  
-----  
There are following two programs.  
Send the number of the program you wish to record.  
If you wish to cancel, send "NG".

~412

-----  
Recording number : 1  
Recording date : Wednesday, August 1, 2002  
Recording start time : 21:00  
Recording stop time : 23:00  
Recording channel : Digital satellite TV channel  
Program title : \*\*\*\*  
Program contents : -----  
Director : #####  
Performers : +++++, OOOO, XXXX

-----  
Recording number : 2  
Recording date : Wednesday, August 1, 2002  
Recording start time : 21:00  
Recording stop time : 23:00  
Recording channel : Terrestrial TV channel 1  
Program title : □□□□□□  
Program contents : -----  
Director : ▽▽▽▽▽  
Performers : ----, XXXX

From : taro@abc-net.co.jp  
To : DVHS@homeserver.abc.co.jp  
Subject : Recording schedule  
-----

~413

2  
>There are following two programs.  
>send the number of the program you wish to record.  
>If you wish to cancel, send "NG".

From : DVHS@homeserver.abc.co.jp  
To : taro@abc-net.co.jp  
Subject : Re : Recording schedule  
-----  
Following recording has been scheduled.  
-----  
Recording number : 2  
Recording date : Wednesday, August 1, 2002  
Recording start time : 21:00  
Recording stop time : 23:00  
Recording channel : Terrestrial TV channel 1  
Program title : □□□□□□  
Program contents : -----  
Director : ▽▽▽▽▽  
Performers : ----, XXXX

~414

FIG. 9

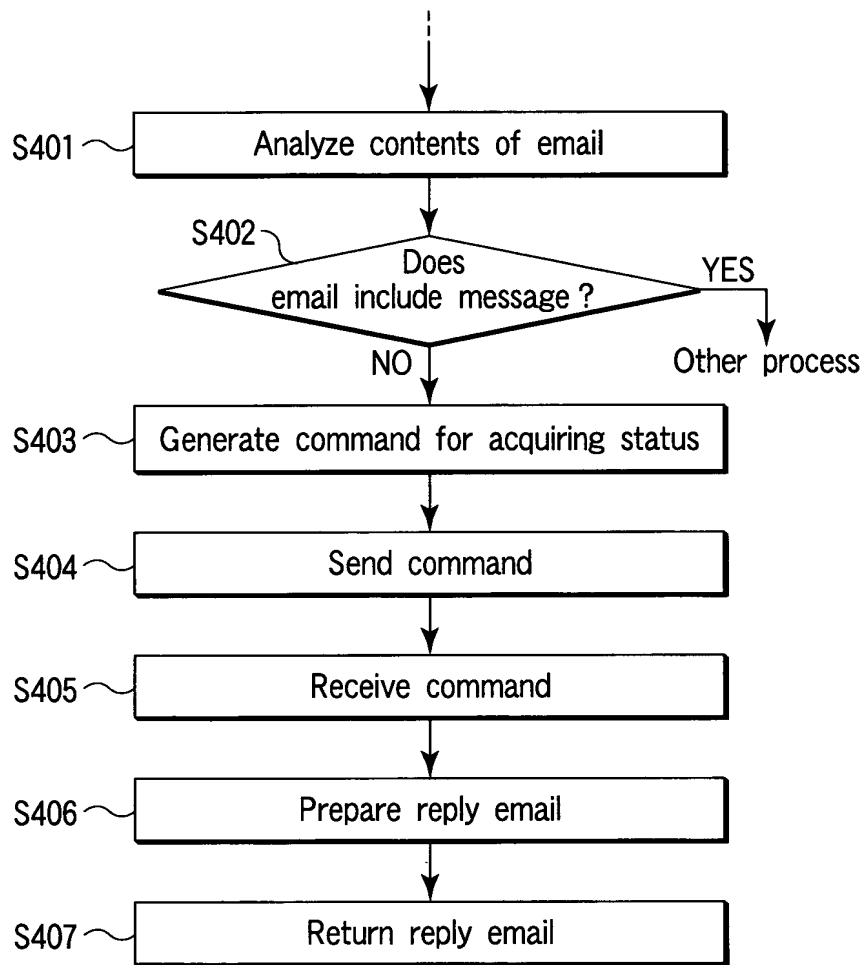


FIG. 10



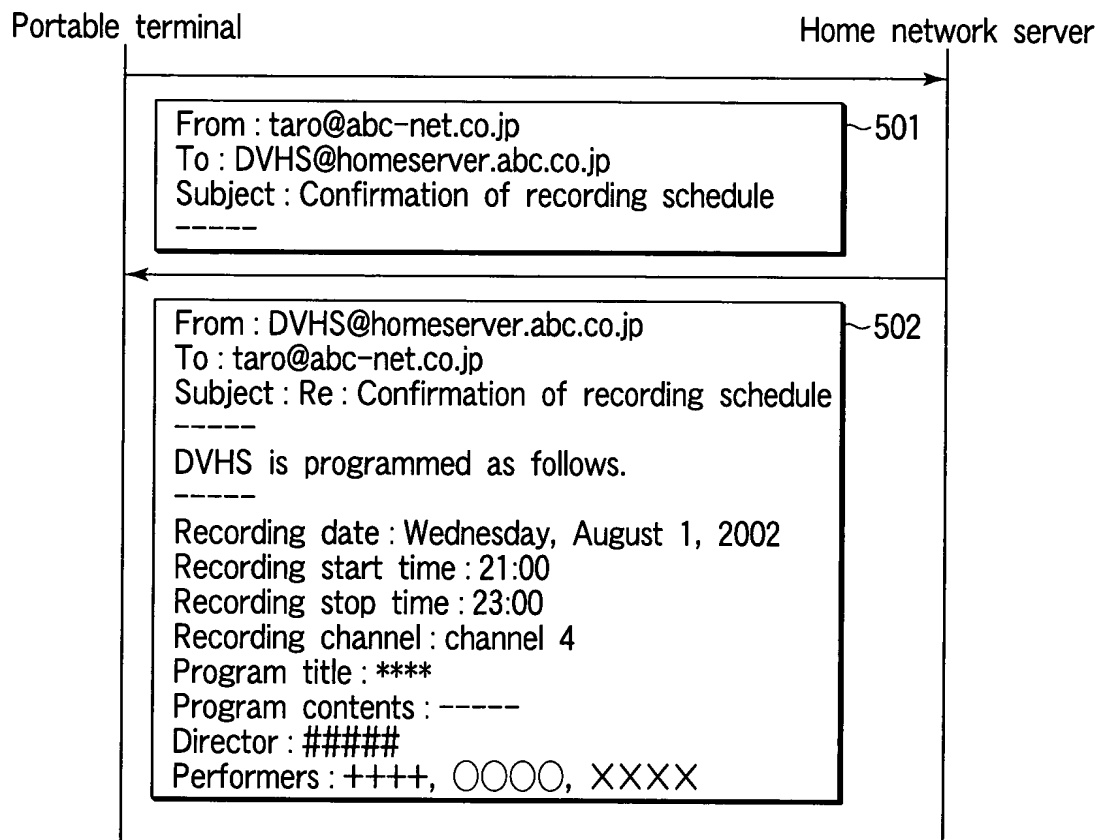


FIG. 11

Target to be controlled	Contents of mail	Summary of reply	Reply 1	Reply 2	Reply 3	Reply 4	Reply 5
Home server	No message	Support command	Controllable device	Recording schedule	Status of device		
DVHS	No message	List of recording schedule	Recording date	Recording start time	Recording stop time	Recording channel	Recording mode
AV-HDD	No message	List of recording schedule	Recording date	Recording start time	Recording stop time	Recording channel	Recording mode
DVD-RAM	No message	List of recording schedule	Recording date	Recording start time	Recording stop time	Recording channel	Recording mode
Air conditioner	No message	Current status	Recording date	Start time	Contents of control	Moving image mode	
Surveillance camera	No message	Image format	Still image 1	Still image 2	Moving image 1	Moving image 2	

FIG. 12

Portable terminal

Home network server

From : taro@abc-net.co.jp  
To : HomeServer@homeserver.abc.co.jp  
Subject : Command ?  
-----

~601

From : HomeServer@homeserver.abc.co.jp  
To : taro@abc-net.co.jp  
Subject : Re : Command ?  
-----

~602

Following command is supported.  
Reply the number of information you wish to know.  
-----

1. List of controllable devices
2. Recording schedule
3. Status of devices within network

From : taro@abc-net.co.jp  
To : HomeServer@homeserver.abc.co.jp  
Subject : Re : Command ?  
-----

~603

3  
>Following command is supported.  
>Reply the number of information you wish to know.  
>-----  
>1. List of controllable devices  
>2. Recording schedule  
>3. Statuses of devices within network

From : HomeServer@homeserver.abc.co.jp  
To : taro@abc-net.co.jp  
Subject : Re : Command ?  
-----

~604

Following are statuses of devices within network.  
-----

1. DVHS : On standby for recording
2. AV-HDD : Power off
3. DVD-RAM : Under reproduction
4. Air conditioner : Under operation
5. Surveillance camera : Under operation
6. Desktop PC : In use

FIG. 13

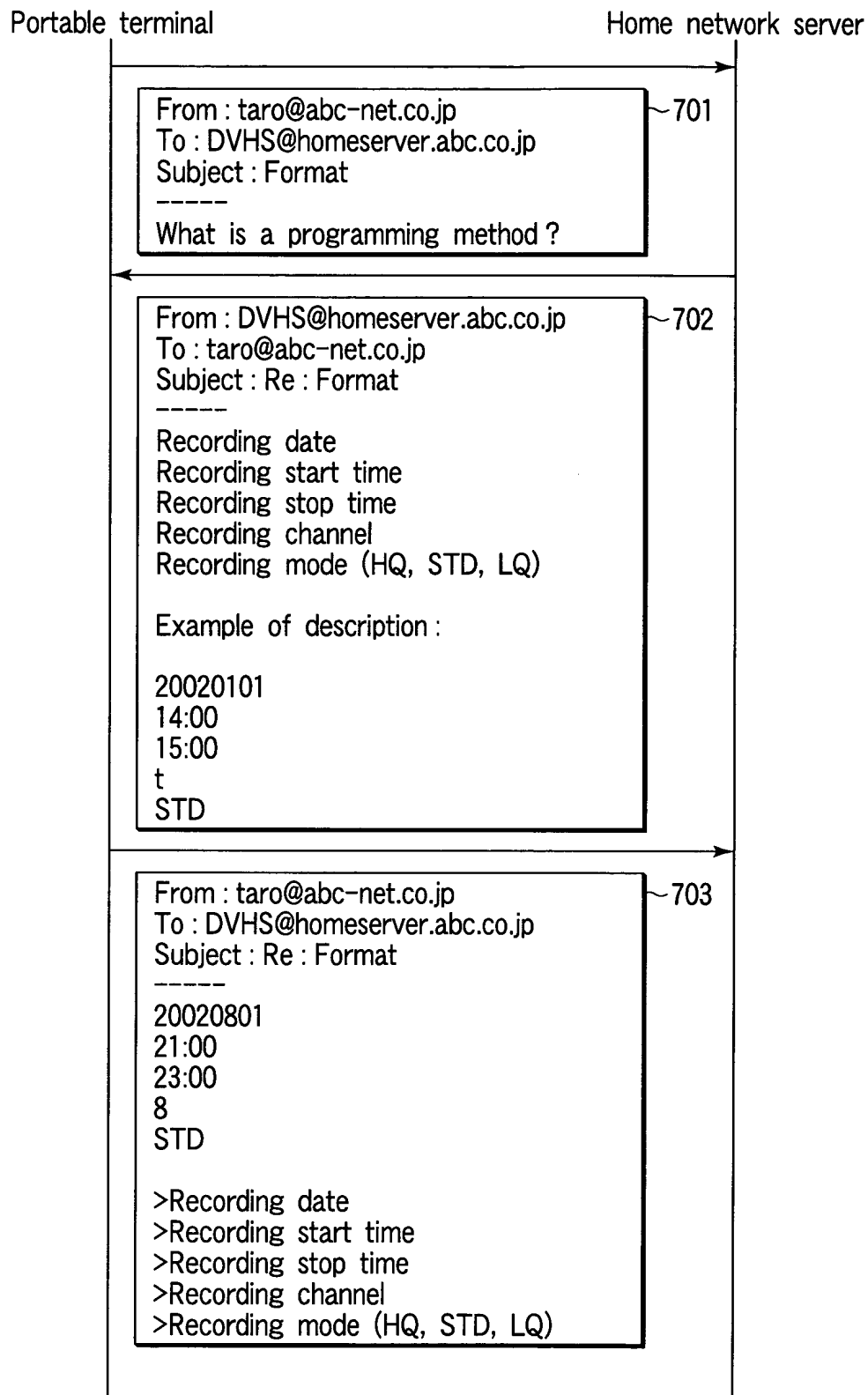


FIG. 14

Portable terminal

Home network server

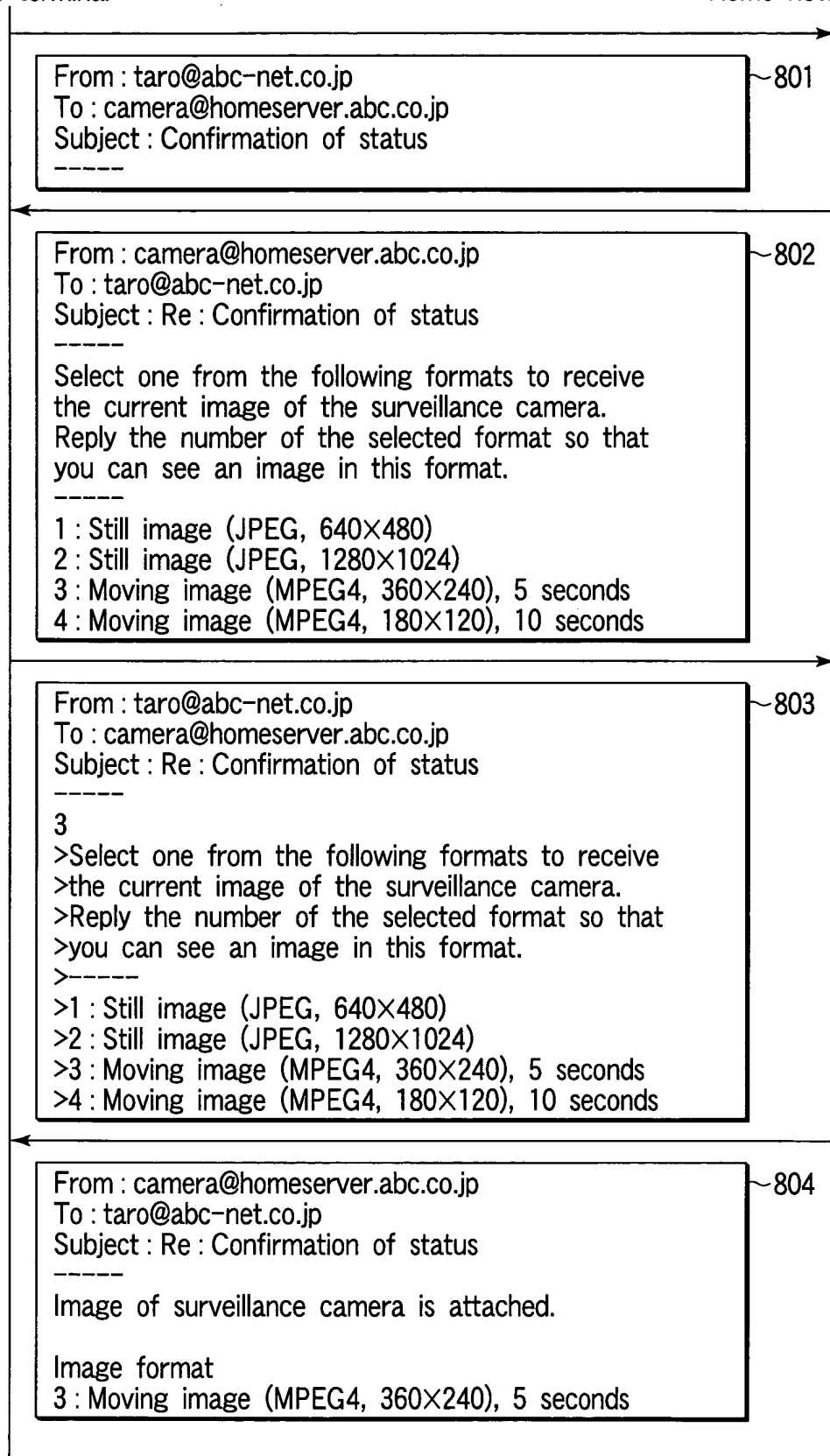


FIG. 15

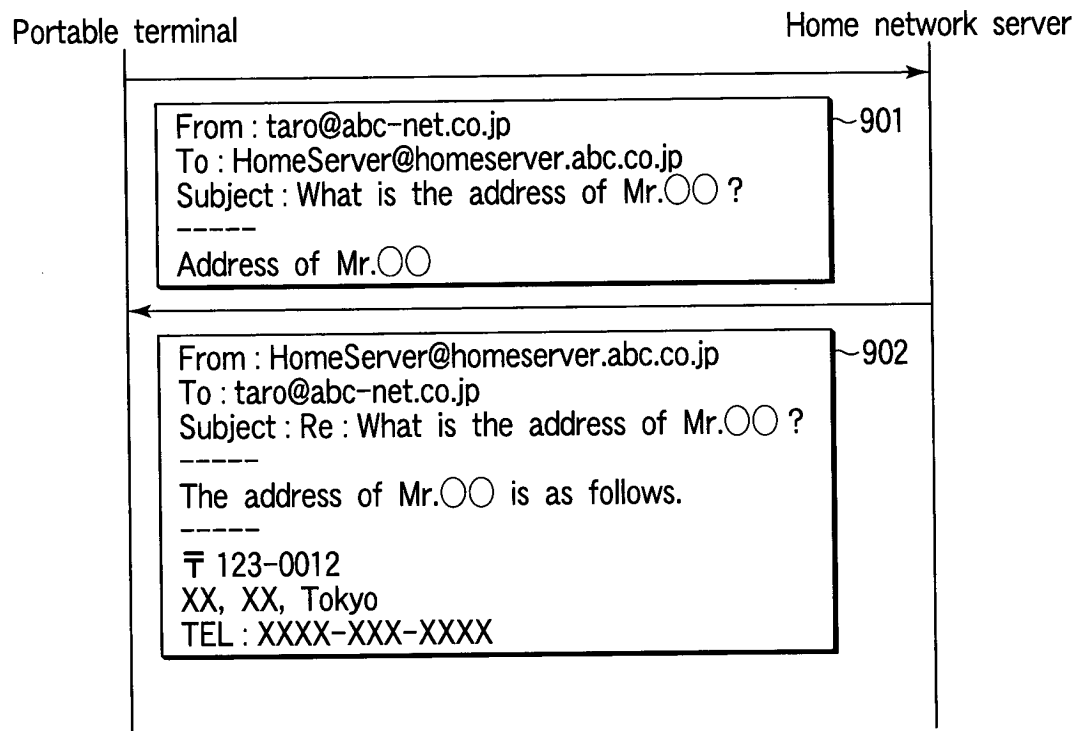


FIG. 16

Name of sender	Date and time of mail receipt	Device to be controlled	Control contents 1	Control contents 2	Control contents 3	Control contents 4	Control contents 5	Control contents 6
T-taro	August 1, 2002 at 13:00	DVHS	Recording schedule	20020801	21:00	23:00	8	STD
T-taro	August 1, 2002 at 13:20	AV-HDD	Recording schedule	20020801	16:00	16:30	1	HQ
T-jiro	August 2, 2002 at 21:00	Air conditioner	Start	20020802	21:30	Power-ON	Air conditioning	
T-saburo	August 3, 2002 at 10:00	Database	Address search	Mr.○○				
T-taro	August 3, 2002 at 11:00	Surveillance camera	Moving image	MPEG4	360X240	5 seconds		
T-Ako	August 3, 2002 at 12:30	DVD-RAM	Recording schedule	20020803	20:00	21:00	4	STD

FIG.17